AGRI TECHNICA
The World's No.1

november 10th 2009

BERTHOUD

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DUALMATIC and BERLOGIC: ‘BERTHOUD CREATION’

To satisfy the requirements of the standards for residual volumes, **BERTHOUD** has concentrated part of its research on the **DUALMATIC** valve block and the BERLOGIC control panel (see picture below) which allows the farmer to control the spraying with only two handles.

Our research has allowed us to :

✚ Satisfy the requirements of **‘good practices’** for the user’s comfort and safety by creating a simplified control panel which can be motorized.
✚ Satisfy the requirements of the **standards for residual volumes** : reduce pipe length and compact design.

As for the **OMEGA pumpe,** the Research Department made a priority to find the materials best suited to intensive use.

The DUALMATIC / BERLOGIC Duo are on the market since 2007 on TENOR and since 2008 on RAPTOR, and guarantees our customers full satisfaction.

Optimal control with DUALELEC

New

This motorized version of the spraying control allows to handle the 17 functions of the sprayer from the cab and the control panel :
✚ Agitation in the main tank can be manual or automatic according to the volume in the tank
✚ Rinsing of the main tank
✚ Rinsing of the boom and spraying circuit without return to the tank

Used with the **NIVOMATIC electric gauge**, the **DUALELEC** permanently displays the volume in the tank and allows to program a fill volume with automatic cut-off, reducing the risk of over-flow.

Tank Volume

(Optional on TENOR and RAPTOR)

Precise application thanks to GPS

BERTHOUD’s specific feature is to fit the farmer’s tools.
The user therefore has a wide choice of software to work with.

The **TENOR** and **RAPTOR** ranges are fitted with **DP Tronic** electronic regulation, with possible connection for GPS automatic sections on/off and rate control.
Moreover, to find the best possible lay-out, several systems can be used :
✚ **Guidance** : optimizes lay-out, avoids overlaps, avoids marking…
✚ **Automatic sections ON/OFF** to reduce overlaps and allows the best possible spray coverage of the field.
DP Tronic can be connected with different systems available such as SATPLAN, Trimble, Tee-Jet…
✚ **Rate control** to measure your crops demands. The optional **PASSTRONIC** is available with **DPTronic** and allows the connection of systems such as N-Sensor, SATPRECO and many others.

NEW SMALL MOUNTED RANGE
‘ALTO 300 – 400 – 600 and 800’ litres

4 capacities: 300, 400, 600 and 800 litres.

New

2 possible regulations: constant pressure or DPM.

BERTHOUD Piston diaphragm Pump

Standard rinse tank (40 or 80 lt) and hand wash tank (15 litres).

With or without boom:
- ❖ without boom with constant pressure and 1 or 2 hose reels for precise application
- ❖ with booms from 7 to 12m with rear folding, constant pressure
- ❖ with booms from 9 to 15m with rear folding, DPM
- ❖ possibility to have a hose reels and a boom for both regulations

Much additional equipment:
- ❖ Electrically operated main shut-off valve
- ❖ Manual or electric control of spray section
- ❖ Optional chemical funnel or chemical suction hose

MOUNTED ELYTE – ULYS BOOM

New boom with vertical rear folding for ELYTE.

ULYS boom, available width : 18, 20, 21 and 24 m :
- ✚ Easy to store thanks to its compact design,
- ✚ Easier access to cab and tank lid
- ✚ Various folding possibilities,
- ✚ Exceptional stability thanks to the **Axiale** suspension.

Elyte is also a range of 1000, 1200 and 1600 lt capacity tanks with Multis 15-18 m, RLD 18 to 24m and Axiale 21 to 28m booms.

TENOR 5500 l

The **TENOR** range continues to expand with the addition of the 5500 lt capacity. It is available with booms Axiale 2 from 24 to 33m, EKTAR from 36 to 42m and the new KONDOR boom with compact 3-arm folding, from 32 to 38m.

The standard equipment is the same as for the other machines of the range with only a few changes : same standard of equipment as the other machines of the range with some special features:
- ✚ Two rinse hoses in the tank for better agitations,
- ✚ Hydraulic jack stand and standard **Flexia** drawbar suspension

RANGE EX/EXS
EVOLUTION

The EX EXS EVOLUTION range, easy to use and efficient, with BERTHOUD technology.

Improved control to:
✚ Ease the sprayer's control with only **3 valves for the 16 functions on the BERLOGIC panel**
✚ Ease the use: in-cab control of the **dilution of the residues** in the main tank
✚ **Reduce residues** due to fewer hoses

EX/EXS : a complete range with a large choice of booms and regulations :
RACER 2500 and 3200 litres
MAXXOR 4000 litres

Booms
RLD from 18 to 24 m
AXIALE from 24 to 33 m

A range with the benefit from BERTHOUD's know-how : ACTIFLEX axle suspension, floating level gauge which can be completed by the NIVELEC gauge (optional), rinsing equipment complying with standard EN 12761 (tank and boom rinse without return to the tank).

New control panel

DPA RANGE

Reliability of a totally mechanical system :
- Volumetric pump, with 2 dual acting pistons driven by the sprayers wheel (240 or 320 l/mn).
- This system allows constant volume/hectare independent from external parameters
- Mechanically driven Volux pump with remote clutch on angle transmission and possibility to control the vol/ha from the cab (Televolux)

Advantages :
✚ Easy control of volume/hectare on the pump or from the cab (Televolux)
✚ Slow rotation speed : less wear
✚ Even if the forward speed varies, and even if the wheels slip, the vol/ha stays constant
✚ The output from the pump does not depend on the tractor's engine: less consumption and wear for the tractor
✚ A real axle suspension ACTIFLEX
✚ Easy maintenance
✚ 2 speed gearbox, 1 for low volume

DPA range
RACER, MAJOR, MAXXOR
Tank capacity 2500, 3200 or 4000 liters according to model, with booms from 24 to 42 m.

Booms
RLD from 18 to 24m
AXIALE from 24 to 33m
XLTN 36m
EKTAR alu for width from 36 to 42 m

RAPTOR

Tank capacities from 3200 to 5200 litres
Boom width from 24 to 42 m, 40km/h

Improved comfort with:

✚ Reduced noise level
✚ **HYDROPILOT** for constant working speed
✚ New hydraulics for easier driving and improved performance.
✚ New DEUTZ high-performant engine, 180 or 200 HP

Chasing residues thanks to:

✚ Diamond shaped tank bottom and side drainage pipe
✚ **DUALMATIC** (exclusive **BERTHOUD** valve block – shorter hoses)
✚ **DUALELEC** (together with the **NIVOMATIC** gauge to control filling)

More savings:

✚ **AUTOMOTIVE** drive for better control on the road
✚ **DP Tronic** with connection for GPS automatic section on/off and rate control using systems already available such as SATPLAN, TeeJet, Trimble, N-Sensor and many more.

Special equipment for the control of Western Corn Rootworm:

Exclusive BERTHOUD equipment optional on our self-propelled RAPTORs with 1.4m and 1.6m ground clearance, composed of :

- A system with a « dual frame » and chains to allow work at a height under nozzles from 0.5 to 3.15m, with no modifications made by the user
- A special equipment at the control area with a removable step for easy access to the chemical funnel and the control valves.

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New lift

KONDOR boom with 3-stage folding

KONDOR boom with 3-stage folding available for TENOR 4300 / 5500 litres and RAPTOR 4200 litres. This new steel boom is compact when folded with a very wide spread when unfolded, available in working widths of 32, 33, 36 and 38 m.

✚ **Our features** : **Pendulo-Axiale suspension** combining the advantages of **Axiale** suspension (excellent in turns and sloping ground) with the « + » of Pendulum suspension with excellent stability on rutted ground. The switchover from « Axiale » to « Pendulo », is controlled from the cab using a hydraulic lock.

The total width of the folded boom is less than 2.55m, to make the use on road and storage easier .

KONDOR : A boom which folds into nothing but spreads its wings for the largest jobs !

BOOM AXIALE 2

The leader for stability.

Available in 24 to 33 m for **TENOR** and **RAPTOR.**
✚ Suspension on central pivot, excellent performance especially on bends and sloping land
✚ Compensates for slope variations without user intervention
✚ Independent anti-yaw device on each arm, damping horizontal whipping during acceleration and braking, and protecting the boom's structure.

SPEEDAIR EVOLUTION for vineyards

Tank capacity 1 000 and 1 500 litres.

- ✚ Performance of the Speedair fan with more power
- ✚ Easy use of the Sitex boom (for row width from 1,40 m to 2,50 m)
  Spraying of 2 rows and 2 half rows for wide coverage – Vertical folding)
- ✚ CGL boom for precise side-by-side spraying from above (large vineyards)

FRUCTAIR for orchards

Tank capacity 1 000, 1 500, 2 000 or 3 000 lt
3 different fans : Tc (rear air suction), Ti and T2i (reversed air suction).

- ✚ Power and comfort
- ✚ Complete equipment : electric valves, BERLOGIC panel, chemical funnel
- ✚ Easy control with BERLOGIC panel
- ✚ 100% good practice

Available with tower .

Fructair.

New

FRUCTAIR tower Vineyard & Orchard

Tower for fruit hedges or large vineyard rows :

- mounted on Ti Air fan (reversed air suction)
- polyester with adjustable stainless steel air deflectors
- with 2 sections (R/L)
- 2 x 7 brass nozzle holders with integrated drop stop
- dimensions for Fructair 1500 wheels 11,5/80x15,3 : h = 2m10 et l = 0m98 (< total width of the machine)

Perfectly even air flow

- ✚ Asymmetric rear diffuser : air flow balance left / right
- ✚ Adjustable air deflectors : adjustable according to the vineyard or orchard type

Efficient and environment-friendly

- ✚ Horizontally conducted air flow
- ✚ Precise targeting
- ✚ Even coverage
- ✚ Localized application possible (chemical thinning, anti botrytis)
- ✚ Reduces air drift

Fruit hedges : row width 4 to 6m, height 3m50 to 4m :

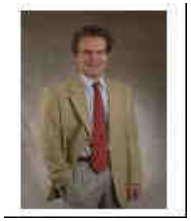
- ✚ possibilité de localiser les traitements (chemical thinning)
- ✚ passing under anti-hail nets (h entrance = 2m50)

Large vineyards : 2m50 to 3m60, height > 2m / Optional adjustable upper air deflectors :

- ✚ For localized application (anti-botritys)

OUR MARKETING TEAM at your service:

Jean-Christophe ROUSSEAU
Marketing & Communication Manager for Vineyard and Orchard
Standard, regulations and crop sprayer inspection Expert
jc.rousseau@berthoud.com
04.74.06.50.14



François-Xavier JANIN
Row Crops Products Manager
fx.janin@berthoud.com
04.74.06.50.09

Carole PERIDIER
Marketing and Communication Manager
c.peridier@berthoud.com
04.74.06.50.15